DEPARTMENT OF TRANSPORTATION Research and Special Programs List on a non in miles in moleralminh 49 CFB Part 123'w color glogoub ollen ad [Docket No. HM-2018; Amdt. No. 173-208] RIN: 2137 AB39: F Stocker . Lynn sanotes y mainurs overage. The Const sion is Shippers; Use Of Tanic Car Tanks with a Localized Reductions in Shell at 879 0 190. Thickness is one special the seenal III. December 28, 1968. Agency Research and Special Programs. Administration [RSPA], (DOT), ok., will & ACTION: Final rule, anothers Will to Ivin with SUMMARY: RSPA is amonding the 49 CFR Part 173) to [1] permit the use of railroad tank car tanks with tank shell thicknesses in localized areas less than the minimum specified in the Hazardous Materials Regulations [HMR] and [2] require the measurement of tank carried tank thicknesses under certain carried to the conditions. This action is necessary to be verify that tank repairs do not result in significant decreases in shell of the conditions. thicknesses. The intended effect of this back action is to assure that tank repairs do at not result in a reduction in the level of the safety and to facilitate commerce by allowing the use of tank car tanks, with localized reductions in shell thickness, which have been determined to be safe EFFECTIVE DATE: These amendments are effective on June 1, 1989. However, compliance with the regulations as amended herein is authorized as of March 30, 1989. FOR FURTHER INFORMATION CONTACT: Philip Olekszyk, Deputy Associate

Administrator for Safety, Federal

Railroad Administration, RRS-2, Washington, DC 20590, Telephone (202) 366-0897.

SUPPLEMENTARY INFORMATION: On December 8, 1987, RSPA published a notice of proposed rulemaking (NPRM) in the Federal Register, under Docket HM-201B, Notice No. 87-11 (52 FR 46511). In Notice 87-11, RSPA and the Federal Railroad Administration (FRA) proposed to (1) permit the use of railroad tank car tanks with tank shell thicknesses in localized areas less than the minimum specified in the Hazardous Materials Regulations (HMR) and (2) require the measurement of tank car tank thicknesses under certain conditions. These actions were based upon the belief of RSPA and FRA that small localized reductions in shell thickness due to tank repairs would not significantly reduce the safety level of tank car tanks and upon the observation of FRA that some repair facilities were not recording tank car tank thickness measurements on repair records. The interested reader is directed to Notice No 87-11 for additional background information concerning this rulemaking.

In response to the NPRM, RSPA received 17 comments concerning the reductions in shell thickness and one comment concerning the tank car tank measurement issue. Several commenters suggested that there is not or should not be any requirement for minimum tank car shell thicknesses after a tank car has been built. These commenters further suggested that the periodic hydrostatic tests should be sufficient to ensure the continued safety of the afffected tank car tanks, RSPA and FRA disagree with this position. RSPA's and FRA's position is that, under the current HMR, if for any reason a package, including a tank car tank, does not meet the applicable specification under which it was constructed, the specification markings on the package must be removed or rendered illegible thereby removing its certification as a specification package. This docket would modify that general rule for certain special situations.

All commenters who responded to the thin shell issue supported the concept that tank car tanks which have small localized reductions of shell thickness due to tank repairs should be allowed to continue in service. However, the Association of American Railroads (AAR) had four reservations on the specific proposals in Notice No. 87–11. The AAR comments were endorsed by seven other commenters.

The AAR proposed to limit the use of thin shell tank car tanks to so called "pressure tank car tanks" and to class DOT 111 tank car tanks. The AAR noted

that some class DOT 103 tank car tanks have a minimum shell thickness of as low as % inches. RSPA and FRA agree that allowing % inch reductions in shell thickness on some "non-pressure" tank car tanks could pose an unacceptable risk. Therefore, RSPA is limiting the scope of this rulemaking to classes DOT 105, 109, 111, 112, and 114 tank car tanks.

The AAR also proposed to limit the use of thin shell tank car tanks to tanks constructed of carbon steel. The AAR did not elaborate on their reasons for this limitation. However, the research report discussed in Notice No. 87-011 was limited to an analysis of carbon steel tank car tanks. Therefore, RSPA is limiting the scope of this rulemaking to carbon steel tanks.

The AAR also proposed to limit the use of thin shell tank car tanks to those tanks which are attached to car structures which conform with section 6.2 (Design Loads and Stresses) of the AAR Specifications for Tank Cars. The AAR did not elaborate on their reasons for this limitation. However, RSPA and FRA believe that there might be an unacceptable reduction in safety if thin shell tank car tanks were permitted to be used in combination with older car structures that do not conform with 6.2 of the AAR Specifications for Tank Cars. Therefore, RSPA is limiting the scope of this rulemaking to tank car tanks that are attached to car structures conforming with section 6.2.

The AAR further posposed to limit localized reductions in shell thickness areas to no more than 2 feet in perimeter. It is not clear whether the AAR intended that the 2 foot perimeter restriction apply for each reduction in shell thickness or was a cumulative requirement for all reductions in shell thickness on a tank'cor tank. The AAR did not elaborate on its reasons for proposing a more stringent limitation on the allowable reductions in shell thickness areas, but RSPA and FRA believe that, for a reduction in shell thickness with an irregular shape, it will be considerably easier to determine the perimeter of a reduction in shell thickness than the area of a reduction in shell thickness. Furthermore, the use o a perimeter-based reduction in shell thickness criteria could preclude certain potentially unsafe reduction in shell thicknesses. For example, the area limitation in Notice No. 87-11 would allow a reduction in shell thickness, 60 feet in length and % inches in width. whereas the AAR area limitation would not allow such an extreme situation. However, RSPA and FRA believe that the AAR proposal to limit the maximum

require that the total cumulative authority thickness on each tank car tank does not 3 exceed six feet For reductions in shell thickness that are square or cylindrical use there is little difference between the are after provisions contained in proposed (1) (1) (1) \$8 173.31(a)(11) (i), and 173.31(a)(11) (ii) as adopted in this final rule, but the establish AAR proposal is considerably more almost restrictive than either version for .. AGAN example, for a tank with a single, the control in shell thickness, the AAR proposal would allow a square. control reduction in shell thickness with aides of no more than 0.5 feet or a circular reduction in shell thickness with a reduction in shell thickness with a diameter of no more than 0.8 feet; Notice No. 87-11 would allow a square in the reduction in shell thickness with sides of no more than 14 feet or a circular of the square in the square of the square in the square of the squar reduction in shell thickness to have a this final rule allows a square reduction., in shell thickness with sides of no more ... then 1.5 feet or a circular reduction in shell thickness with a diameter of no more than 1.9 feet. However, for long. narrow reductions in shell thickness this final rule is considerably more. restrictive than Notice No. 87-11 but is less restrictive than the AAR proposal. For example, for a tank with a single reduction in shell thickness, the AAR proposal would allow a long narrow reduction in shell thickness with a length of no more than one foot; Notice. No. 87-11 would allow a long narrow reduction in shell thickness extending the entire length of the tank car tank; and this final rule allows a long narrow reduction in shell thickness to have a

length of no more than three feet.

All commenters who respond to the thin shell issue suggested that the relief, proposed in Notice 87-11 should be broadened to additional situations, such as (1) reductions in shell thickness resulting from causes other than repair operations, such as corrosion; (2). reductions in shell thickness on ethylene oxide tank car tanks; (3) reductions in shell thickness on the lower half of any tank car tank head; (4) reductions in shell thickness greater than %s inches in depth; (5) reductions in shell was a second thickness with a total cumulative, ou the surface area in excess of two square feet; and (6) reductions in shell thickness on cargo tanks. RSPA and FRA believe that additional relief may be justified in some or all of the above situations, as well as for tanks constructed of materials other than carbon steel, for classes DOT 103, 104.

and 115 tanks, for AAR specification tank car tanks, and for tank car tanks that are attached to car structures conforming with section 6.2 of the AAR Specifications for Tank Cars. However, RSPA and FRA believe that there was insufficient information presented in the comments to justify additional relief at this time, and some of the issues raised are beyond the scope of this rulemaking. The AAR noted that it is sponsoring two studies on the thin shell issue. When the results of those studies are available. RSPA and FRA will consider the results and evaluate that information, and information from other sources to determine the need for future rulemaking.

One commenter, who responded to the proposed requirement for the measurement and recording of tank car tank thickness after certain repairs, disagreed with the assertion in Notice 87–11 that these measurements and recording of measurements are already implicitly required by the HMR. However, no substantive arguments were advanced by this commenter to support this position. RSPA and FRA believe that performing these measurements is essential to ensure that tank car tank repairs result in the reconstruction of a tank to its original design" and are required under the current HMR. The only purpose of the proposed change to § 173.31(f) was for clarity. However, upon review, RSPA and FRA have determined that there is no need to record these measurements because the tank shell (before and after the repair) must be within the established limits set forth in part 179, and the amendments to this rulemaking for localized thin spots. Therefore, by not requiring that these measurements be recorded, RSPA and FRA will reduce the information collection burden previously imposed on the repair facilities. Lastly, in this final rule RSPA is amending § 173.31(f) to require that tank shell thickness measurements be performed only when there is a possible reduction in the tank thickness. Several commenters pointed out a typographical error in proposed § 173.31(a)(11)(v) which prohibited the use of any tank car tank with scores, gouges, or other areas of stress concentration. In the final rule that paragraph is amended to require that no reduction in shell thickness may have any scores, gouges, or other areas of stress concentration.

In § 173.31. RSPA is revising paragraph (a)(11) to clarify that allowing the use of tank car tanks with localized reductions in shell thickness also applies to tank car tanks made and maintained to the specifications of the

Canadian Transport Commission and used to transport hazardous materials within the United States. Paragraph (f) is revised to clarify that the requirements contained in § 173.31 also apply to tank car tank conversions.

## Administrative Notices

The RSPA has determined that this rulemaking (1) is not "major" under Executive Order 12291; (2) is not "significant" under DOT's regulatory policies and procedures (44 FR 11034); (3) will not affect not-fur-profit enterprises or small governmental jurisdictions; and (4) does not require an environmental impact statement under the National Environmental Policy Act (40 U.S.C. et seq.) A regulatory evaluation is available for review in the Docket.

Based on limited information concerning the size and nature of entities likely to be affected by this final rule, I certify that this regulation will not have a significant economic impact on a substantial number of small entities under the criteria of the Regulatory Flexibility Act. I have reviewed this regulation in accordance with Executive Order 12612 ("Federalism"). It has no substantial direct effects on States, or the Federal-State relationship or on the distribution of power and responsibilities among levels of government. Thus, this regulation contains no policies that have Federalism implications as defined in Executive Order 12812 and, therefore, no Federalism Assessment has been prepared.

A regulatory information number (RIN) is essigned to each regulatory action listed in the Unified Regulatory Agenda of Federal Regulations. The Regulatory Information Service Center publishes the Unified Agenda in April and October of each year. The RIN number contained in the heading of this document can be used to cross reference this action with the Unified Regulatory Agenda.

## List of Subjects in 49 CFR Part 173

Hazardous materials transportation, Packaging and containers.

In consideration of the foregoing, 49 CFR Part 173 is amended as follows:

## PART 173—SHIPPERS—GENERAL REQUIREMENTS FOR SHIPMENTS AND PACKAGINGS

1. The authority citation for Part 173 continues to read as follows:

Authority: 49 App. U.S.C. 1803, 1804, 1805, 1806, 1807, and 1808, 49 CFR Part 1, unless otherwise noted.

2. In § 173.31, the introductory pinane of the first sentence in paragraph [8][1] 566 is revised, a new paragraph [8][1] is revised to 22 read as follows: [1,1] is revised to 22 read as follows: [1,1] is revised to 25 read as follows: [1,1] respectively a solution of the control of the cont

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(11) A tank car tank which as a result of a tank repair, has one more sixty localized areas where the thickness of 12% the tank is less than that prescribed in 1974 Part 179 of this subchapter, may be used to transport hazardous materials. 1974 the provided that

(i) The tank is constructed of carbons was steel; as as as a second of

(ii) The tank meets either the in the specifications of Part 179 of this subchapter for class DOF 105, 108, it is 111, 112, or 114 tank car tanks or the usual corresponding specifications of the usual Railway Transport Committee of the mental Canadian Transport Commission for the CTC class 105, 100, 111, 112, or 114 tank car tanks;

(iv) The total comulative surface (for ed perimeter of the reductions in shell sale that thickness on each tank car tank does not exceed six feet; and the last the l

(v) If the tank car tank is used to be transport ethylene oxide, the bursting pressure (see § 179.100-5 of this subchapter) of the tank is at least 750 of paig.

(vi) There are no reductions in shell thickness on the lower half of any tank car tank head:

(vii) No reductions in shell thickness may have any secrees, govges or areas of stress concentration; and

(viii) The tank car tank is attached to a car structure conforming with section 6.2 of the AAR Specifications for Tank Cars.

(f) Repairs, alterations, or 15 conversions. (1) For procedures to be followed in making repairs, alterations, or conversions to all tank car tanks and securing approval therefor, see Appendix R. Association of American Railroads Specifications for Tank Cars. After repairs, alterations, or conversions of a tank car tank that result in a possible reduction in the tank thickness at any point, the thickness of the tank car tank shall be measured in the affected area to verify that the tank

thickness meets the requirements of the applicable tank specification, except as provided in § 173.31(a)(11). If a tank car tank is built to one test pressure, but is authorized to be stencifed to a lower test pressure, the applicable tank specification shall be the higher test pressure specification. If an existing pressure tank car tank is permanently converted to a lower pressure specification in accordance with § 173.31(c)(7), the applicable tank specification shall be that of the lower pressure specification.

Issued in Washington, DC on February 23, 1989 under authority delegated in 49 CFR Part

M. Cynthis Douglass,
Administrator, Research and Special
Programs Administration.
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